

# S250 Series



CAPACITY <sup>†1</sup>	160GB	200GB	250GB
MODEL	HD162HJ	HD200HJ	HD250HJ
<b>FEATURES</b>		<b>ENVIRONMENTAL SPECIFICATIONS</b>	
<ul style="list-style-type: none"> <li>Max. 250GB Formatted Capacity Per Disk</li> <li>SATA Native Command Queuing Feature set</li> <li>Enable / Disable Staggered Spin-up</li> <li>Hot-Plug and Presence Detect</li> <li>Device Initiated Power Management</li> <li>ATA S.M.A.R.T. Compliant</li> <li>ATA Automatic Acoustic Management Feature Set</li> <li>ATA 48-bit Address Feature Set</li> <li>Asynchronous Notification</li> <li>NoiseGuard™</li> <li>SilentSeek™</li> </ul>		Temperature Operating 0 ~ 60 °C Non-operating -40 ~ 70 °C Thermal Gradient (max.) 20°C/hr Humidity (non-condensing) Operating 5 ~ 90 % Non-operating 5 ~ 95 % Linear Shock (1/2 sine pulse) Operating, 2ms 63 G Non-operating, 2ms 350 G Altitude (relative to sea level) Operating - 300 to 3,000 m Non-operating -300 to 12,000 m	
<b>DRIVE CONFIGURATION</b>		<b>POWER REQUIREMENTS</b>	
Interface	Serial ATA 3.0Gbps	Voltage	+5V±5%, +12V±10%
Rotational Speed <sup>†2</sup>	7,200 RPM	Spin Up Current (12V)	2.0 A
Buffer DRAM Size	8 MB	Seek <sup>†4</sup>	4.8 W
Bytes per Sector	512 bytes	Read/Write	3.0 W
<b>PERFORMANCE SPECIFICATIONS</b>		Idle(typical)	3.2 W
Read Seek Time (typical)		Standby <sup>†5</sup>	0.12 W
Average	8.9 ms	Sleep <sup>†5</sup>	0.12 W
Average Latency	4.17 ms	<b>PHYSICAL DIMENSION</b>	
Data Transfer Rate		Height(max.)	25.4 mm
Media to/from Buffer (max.)	158MB/sec	Width	101.6 mm
Buffer to/from Host (max.)	300MB/sec	Length(max.)	146.1 mm
Drive Ready Time (typical)	8 sec	Weight(avg.)	462.7 g
<b>RELIABILITY SPECIFICATIONS</b>		<i>Specifications are subject to change without notice.</i>	
Non-recoverable Read Error	1 sector in 10 <sup>14</sup> bits	<sup>†1</sup> 1MB=1,000,000 Bytes 1GB=1,000,000,000 Bytes. Accessible capacity may vary depending on operating environment and formatting	
Start/Stop Cycles (Ambient)	50,000	<sup>†2</sup> 7,200 RPM class. Actual speed can be different a little.	
<b>ACOUSTICS (AVERAGE SOUND POWER)<sup>†3</sup></b>		<sup>†3</sup> Averaged value with a high performance cover.	
Idle	2.45 Bel	<sup>†4</sup> Random seek with 30% duty cycle.	
Performance Seek	2.8 Bel	<sup>†5</sup> Power consumption with/without slumber mode.	
Quiet Seek	2.75 Bel		